

AMENDMENTS TO THE CLAIMS

In the claims, please amend claims as follows:

1. (currently amended) A process for delivering a polynucleotide to an extravascular parenchymal cell in a ~~tissue~~ limb of a mammal *in vivo*, comprising:
 - a) forming an occlusion of fluid flow from said limb;
 - [[a]] b) inserting a viral vector in a ~~solution~~ large volume into the lumen of a vessel in ~~the mammal;~~ said limb thereby forcing fluid out of the limb vasculature and into the extravascular space and ~~b) increasing vessel permeability within the tissue; and,~~
e) delivering [[the]] said viral vector to ~~the tissue outside the vessel thereby delivering the polynucleotide to the extravascular parenchymal cell~~ said extravascular parenchymal cell; and,
 - c) releasing said occlusion.
2. (original) The process of claim 1 wherein the viral vector is selected from the group consisting of: virus, virally encapsulated polynucleotide, and virally associated polynucleotide.
3. (original) The process of claim 1 wherein the polynucleotide is selected from the group consisting of RNA and DNA.
4. (currently amended) The process of claim 2 wherein the viral vector is selected from the group consisting of: adenovirus, adeno-associated virus, retrovirus, herpes simplex virus (HSV), vaccinia virus, vesicular stomatitis virus, retrovirus, lentivirus, human immunodeficiency virus, murine leukaemia virus, and ~~syndbis virus, and recombinant virus.~~
5. (original) The process of claim 1 wherein the vessel consists of a blood vessel.
6. (original) The process of claim 5 wherein the blood vessel consists of an artery.
7. (original) The process of claim 5 wherein the artery is selected from the list consisting of: hepatic artery, femoral artery, iliac artery, and coronary artery.
8. (original) The process of claim 5 wherein the blood vessel consists of a vein.
9. (original) The process of claim 8 wherein the vein is selected from the list consisting of: portal vein, hepatic vein, tail vein, coronary vein, inferior phrenic vein and saphenous vein.
10. (canceled)
11. (currently amended) The process of claim 1 wherein ~~the increasing vessel permeability is selected from the group consisting of: injecting a large volume, injecting the solution~~ said

volume is injected rapidly, increasing hydrostatic pressure against the vessel wall, increasing osmotic pressure, occluding fluid flow through vessels, and injecting a solution that contains a vasodilator.

12. (currently amended) The process of claim 11 ~~wherein the hydrostatic pressure is increased by obstructing outflow from the blood vessel~~ 1 further comprising injecting a vasodilator into said limb.
13. (currently amended) [[A]] The process of claim 1 where the parenchymal cell consists of ~~a is selected from the list consisting of: skeletal muscle cell, cardiac muscle cell, liver cell, prostate cell, diaphragm cell.~~
14. (canceled)
15. (currently amended) A process for extravasation of a viral vector in a limb of a mammal in vivo, comprising:
 - a) forming an occlusion of fluid flow from said limb;
 - b) inserting the viral vector in a solution large volume into the lumen of a vessel in the ~~mammal~~ limb wherein the volume of the solution and the rate of solution injection result in increased ~~permeability of vessels~~ extravascular fluid volume; and,
 - c) removing said occlusion within two minutes of said inserting.
16. (currently amended) The process of claim 15 further comprising ~~wherein the increasing vessel permeability is selected from the group consisting of: injecting a large volume, injecting the solution rapidly, increasing hydrostatic pressure against the vessel wall, increasing osmotic pressure, occluding fluid flow through vessels, and injecting a solution that contains a vasodilator~~ into the lumen of said vessel.
17. (canceled)